

WSRC-RP-99-00663 SEP 03 2004
Revision 7

**U.S. Department of Energy
Savannah River Operations Office
and
Westinghouse Savannah River Company

Authorization Agreement (AA)
for the
Defense Waste Processing Facility (DWPF)**



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**Authorization Agreement (AA)
for the
Defense Waste Processing Facility (DWPF)**

Section 1 – Facility Name, Function, and Location

This Authorization Agreement (AA) applies to the DWPF, a large radiochemical facility designed to vitrify high-level waste. The DWPF is located within S-Area of the Savannah River Site (SRS) near Aiken, South Carolina. The facility, major functions, subsystems, and support facilities are described in the Safety Basis (SB) documents as defined in Manual WSRC-IM-94-10, and as shown in Attachment 1 to this AA.

Section 2 – Authorized Scope of Operations

The scope of operational activities being authorized by this AA is as described in: (a) the Work Authorization and Change Control process specified in Contract No. DE-AC09-96SR18500, (b) the DWPF SB, as defined in Manual WSRC-IM-94-10, and (c) the Environmental Impact Statements (DOE/EIS-0082, DOE/EIS-0082-S and DOE/EIS-0082-S2) and the associated Records of Decision, except with the following restrictions:

- A. Radioactive operation of 512-S (Actinide Removal Process) is not permitted by this AA revision.

Section 3 – Bases

The Department of Energy (DOE) has determined:

- A. Through a series of comprehensive reviews under the Technical Assessment Program, the facility will be operated in compliance with the Standards/Requirements Identification Document (S/RID), WSRC-RP-94-1268 as amended, and this AA as specified in Contract No. DE-AC09-96SR18500, between DOE and Westinghouse Savannah River Company (WSRC). The S/RID has a separate review and approval process and may be amended without need to revise and re-approve this AA.
- B. The facility hazards have been adequately analyzed and appropriate operational controls have been employed as properly documented by the DWPF SB listed in Attachment 1 to this AA. The basis for this determination is documented in the

DOE Safety Evaluation Report (SER), [Allison to Pedde, DC-04-043, July 29, 2004] as supplemented. Each safety document individually has a separate review and approval process, thus each may be amended without need to revise and re-approve this AA. This AA serves to document the complete set of DOE-SRS-approved safety documents tailored for use by the facility and specifically approved by the DOE as the basis for safe operations. The latest revisions to the WSRC and DOE approved SB documents for the DWPF will be identified in Manual WSRC-IM-94-10, as amended.

- C. In accordance with the NEPA regulations, the environmental impacts of facility construction and operation have been evaluated. The environmental impacts of facility construction and operation have been documented in the Environmental Impact Statements. DOE has issued Records of Decision, and the scope of the activity contained in this agreement is consistent with the selected alternative. NEPA documentation has a separate review and approval process and may be amended without necessarily requiring revision and re-approval of this AA.
- DOE/EIS-0082, Final Environmental Impact Statement (Record of Decision 47 FR 23801).
 - DOE/EIS-0082-S, Final Supplemental Environmental Impact Statement (Record of Decision 60 FR 18589).
 - DOE/EIS-0082-S2, Savannah River Site Salt Processing Alternatives Final Supplemental Environmental Impact Statement (Record of Decision 66 FR 52752).
- D. Through the performance of an Operational Readiness Review (ORR), there is reasonable assurance that the facility can be operated without endangering the health and safety of the public, the workers, or the environment [Ref., Action Memorandum, Grumbly (EM-1) to Secretary of Energy (S-1), March 5, 1996].
- E. Through DOE's adherence to Federal Acquisition Regulations, Department of Energy Acquisition Regulations regarding selection of competent contractors, as well as WSRC's contractual commitment to an Integrated Safety Management System and S/RID requirements for personnel selection, training and qualification, DOE is assured that WSRC is technically qualified to engage in the activities authorized by this AA.
- F. Through DOE's review of an approved and current Radioactive Waste Management Basis, as listed in Attachment 2, the facility's handling, documentation and control of radioactive waste ensures compliance with all state, local, and federal radioactive waste regulatory requirements.

- G. Through DOE's review of an approved and current Emergency Preparedness Hazards Assessment, the DWPF response and notification of accident conditions ensures adequate protection for public and workers in surrounding facilities.
- H. Through DOE's review of the Safeguards and Security Basis per the General Site Security Plan, WSRC-RP-2000-00968, latest revision as amended, the facility meets its applicable safeguards and security requirements.

Section 4 – Requirements and Conditions

Operation of DWPF is subject to the following requirements and conditions:


- A. WSRC shall operate the facilities in compliance with the S/RID (latest revision). In accordance with Contract No. DE-AC09-96SR18500, the S/RID identifies the rules, regulations, orders, standards, and directives of DOE and other federal, state, or local agencies that are applicable to the activities associated with DWPF. Authorized deviations shall be documented by WSRC and approved by DOE through Exemption Requests, Compliance Schedule Agreements, Implementation Plans, or modification of the S/RID, as appropriate. New or revised requirements shall be incorporated into the S/RID as directed by DOE. WSRC shall ensure compliance commitments are tracked and completed within established time frames.
- B. WSRC shall operate the DWPF in accordance with the operational controls specified in the latest revision of the SB documents as defined in Manual WSRC-IM-94-10, as amended.
- C. WSRC shall implement and maintain an Environmental Protection program complying with applicable environmental protection and environmental permit requirements as specified in S/RID Functional Area 20, "Environmental Protection." Permits with general applicability are listed below. Compliance is required with all applicable permits even if not listed herein.
 - South Carolina Department of Health and Environmental Control Wastewater Treatment Facility Permits to Operate #16,783, #11,413, #17,424 (LPPP only), as amended.
 - South Carolina Department of Health and Environmental Control Wastewater Treatment Facility Permit to Construct #18,793-IW (512-S), as amended.
 - South Carolina Department of Health and Environmental Control National Pollutant Discharge Elimination System Permit #SC0000175 for S-Area outfall S-04, as amended.

- South Carolina Department of Health and Environmental Control Part 70 Air Quality Permit # TV-0080-0041 as it pertains to S-Area, as amended.

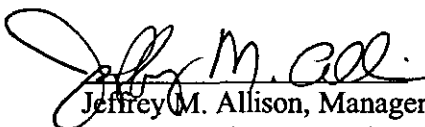
D. During an emergency, facility personnel may take emergency actions that depart from a requirement in the approved AA when no actions consistent with the AA are immediately apparent, and when these actions are needed to protect workers, the public or the environment from imminent and significant harm. Such action must be approved as a minimum by a qualified Vitrification Control Room Manager or Shift Manager. Reporting of such departure from the AA shall be coincident with the normal reporting (per Procedure Manual 9B) for the emergency that caused the departure to be necessary.

Section 5 – Contractual Citation Effective Dates and Approval Signatures

This AA is subject to the conditions specified in Contract No. DE-AC09-96SR18500 between WSRC and DOE. DOE and WSRC agree to the conditions and limitations contained herein. The conditions and limitations within this Authorization Agreement are effective upon the date both parties have signed this AA, or, if applicable, upon revision of Manual WSRC-IM-94-10 and implementation of this revision, which shall be completed within 5 days from the date both parties have signed this AA. This AA shall expire upon expiration or termination of Contract No. DE-AC09-96SR18500.


Robert A. Pedde, President
Westinghouse Savannah River Company

8/26/04
Date


Jeffrey M. Allison, Manager
Savannah River Operations Office

9/3/04
Date

Attachment 1

DWPF Safety Basis Documents

(The latest effective revision is defined in Manual WSRC-IM-94-10)

1. DWPF Final Safety Analysis Report, WSRC-SA-6, latest revision, as amended.
2. DWPF Technical Safety Requirements, WSRC-TS-95-0019/S-TSR-S-00001, latest revision, as amended.
3. DWPF Justification for Continued Operations, WSRC-TR-2004-00400, latest revision, as amended.

Attachment 2
DWPF Radioactive Waste Management Basis Documents

1. DWPF Safety Basis Documents, shown in Attachment 1.
2. S-Area Low Level Waste, Mixed Waste and Transuranic Waste Certification Plan, Q-ESR-S-00001, latest revision, as amended.
3. DWPF Waste Form Qualification Report, WSRC-IM-91-116-X (X=1 through 13), latest revision, as amended.
4. Citation Determination and Evaluation of Waste Incidental to Reprocessing, HLW-SUP-99-0060, latest revision, as amended.
5. Closure Business Unit Implementation of DOE Order 435.1 Container Staging, Inspection, and Monitoring Requirements, CBU-ENG-2003-00052, latest revision, as amended.
6. Federal Facility Agreement for the Savannah River Site, Administrative Document Number 89-05-FF, WSRC-OS-94-42, latest revision, as amended.

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Department of Energy
Savannah River Operations Office
P.O. Box A
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SEP 03 2004

Mr. Robert A. Pedde, President
Westinghouse Savannah River Company
Aiken, South Carolina 29808

Dear Mr. Pedde:

SUBJECT: Submittal of Revision 7 of the Defense Waste Processing Facility Authorization Agreement to DOE (Your Letter, WSR-2004-00160, 08/26/04)

The Department of Energy Savannah River Operations Office has reviewed the subject document forwarded by the referenced letter and approves the proposed changes. The changes include updating the Safety Evaluation Report (SER) Revision approval letter and adding the Justification for Continued Operations (JCO) to the list of Defense Waste Processing Facility (DWPF) safety basis documents. The SER revision documents the review of the DWPF Documented Safety Analysis annual update. The JCO provides the safety basis for the installation and operation of a glass pump into the melter.

The action directed herein is considered to be within the scope of work of the existing contract. If the Contractor considers that carrying out this direction will increase contract costs or delay any delivery, the Contractor shall promptly notify me orally, confirming and explaining the notification in writing as soon as possible, but within no more than five (5) working days. Following oral notification and submission of the written notice of impacts, the Contractor shall await further direction from me.

If you have any questions, please contact me or have your staff contact Jean Ridley at 208-1204.

Sincerely,

A handwritten signature in black ink, reading "Jeffrey M. Allison".

Jeffrey M. Allison
Manager

DC-04-054

Enclosure:
Authorization Agreement for DWPF

cc w/o encl:

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